

Sheet 1 of 1

SUBSTITUTE FORM PTO-1449 (MODIFIED)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)  (37 C.F.R. § 1.98(b))	Attorney Docket No.	50207/002003
	Serial No.	10/749,369
	Applicant	Mehmet Toner et al.
	Filing Date	December 31, 2003
	Group	1651
	IDS Filed	June 30, 2005

U.S. PATENT DOCUMENTS						
Examiner's Initials	Document Number	Publication Date	Patentee or Applicant	Class	Subclass	Filing Date (If Appropriate)
	4,724,206 A	9/2/1988	Rupp et al.			
	5,182,299	1/26/1993	Gullans et al.			
	5,672,502	9/30/1997	Birch et al.			
	6,376,743	4/23/2002	Yanagimachi			
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
	Summers et al., "Chemically Defined Media and the Culture of Mammalian Preimplantation Embryos: Historical Perspective and Current Issues," <i>Hum. Reprod. Update</i> 9:557-582 (2003).					

EXAMINER	DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.	

Sheet 1 of 1SUBSTITUTE FORM PTO-1449  
(MODIFIED)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

Attorney Docket No.

50207/002002

Serial No.

10/549,369  
09/859,165

Applicant

Mehmet Toner et al.

Filing Date

May 16, 2001

Group

1651

IDS Filed

June 12, 2003

Customer No.

21559

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)

(37 C.F.R. §1.98(b))

## U.S. PATENTS

Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
LC	WO 97 45010	12/04/97	WIPO			No
↓	WO 98 09514	03/12/98	WIPO			No
↓	WO 00 15032	03/23/00	WIPO			No

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

--	--

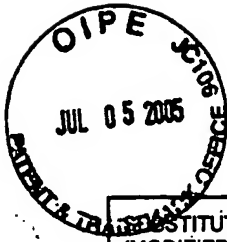
EXAMINER

LANE FORD

DATE CONSIDERED

9/9/5

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

Sheet 1 of 1

<b>INSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use several sheets if necessary)  (37 C.F.R. §1.98(b))	Attorney Docket No.	50207/002002
	Serial No.	101745, 369 09/850,105
	Applicant	Mehmet Toner et al.
	Filing Date	May 16, 2001
	Group	1638
	IDS Filed	January 14, 2002
	Customer No.	21559

**U.S. PATENTS**

Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)

**FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)

**OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)**

✓	Chen et al., "Literature Review: Supplemented Phase Diagram of the Trehalose - Water Binary Mixture," <i>Cryobiology</i> 40:277-282 (2000).
	Critser et al., "The Cryobiology of Mammalian Oocytes," <i>Reproductive Tissue Banking</i> p. 329-357 (1997).
✓	Okay et al., "Cryopreservation of Immature Human Oocytes and Ovarian Tissue: An Emerging Technology?," <i>Fertility And Sterility</i> 69(1):1-7 (1998).
✓	Shanina et al., "A Comparison of a Sucrose-based Solution with Other Preservation Media for Cold Storage of Isolated Hepatocytes," <i>Cryobiology</i> 41:315-318 (2000).

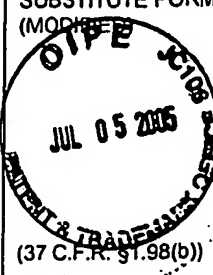
EXAMINER

Laurdard

DATE CONSIDERED

9/9/5

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE 		Attorney Docket No. 50207/002002 Serial No. 101749369 09/859,105-1 Applicant Mehmet Toner et al. Filing Date May 16, 2001 Group Not Yet Assigned IDS Filed August 20, 2001 Customer No. 21559
---	--	--

## U.S. PATENTS

Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
LB	5,496,720	3/5/96	Susko-Parish et al.	435	240.2	2/10/93
	5,827,741	10/27/98	Beattie et al.	435	374	11/19/96
	6,127,177	10/3/00	Toner et al.	435	374	9/11/98

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
LB	WO 99/31977 A1	1.7.99	WIPO			No

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

LB	Beattie et al., "Trehalose: A cryoprotectant that enhances recovery and preserves function of human pancreatic islets after long-term storage," <i>Diabetes</i> 46:519-523 (1997).
	Donnamaria et al., "Interaction of water with $\alpha$ , $\alpha$ -trehalose in solution: molecular dynamics simulation approach," <i>Chem. Soc. Faraday Trans.</i> 90(18):2731-2735 (1994).
	Eroglu et al., "Intercellular trehalose improves the survival of cryopreserved mammalian cells," <i>Nature Biotechnology</i> 18:163-167 (2000).
	Guo et al., "Trehalose expression confers desiccation tolerance on human cells," <i>Nature Biotechnology</i> 18:168-171 (2000).
	Janik et al., "Overcoming a permeability barrier by microinjecting cryoprotectants into zebrafish embryos ( <i>Brachydanio rerio</i> )," <i>Cryobiology</i> 41:25-34 (2000).
	Knight et al., "Microinjection of $^{14}$ C-sucrose and other tracers into isolated phloem strands of heracleum," <i>Can. J. Bot.</i> 52:1491-1499 (1974).
	Hagedorn et al., "Magnetic resonance microscopy and spectroscopy reveal kinetics of cryoprotectant permeation in a multicompartamental biological system," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 93:7454-7459 (1996).
	Hagedorn et al., "New approaches for studying the permeability of fish embryos: Toward successful cryopreservation," <i>Cryobiology</i> 34:335-347 (1997).

EXAMINER <u>LAUREN</u>	DATE CONSIDERED <u>9/9/05</u>
------------------------	-------------------------------

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

SUBSTITUTE FORM PTO-1449 (MODIFIED) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 C.F.R. §1.98(b))		Attorney Docket No. 50207/002002 Serial No. 10/749,369 Applicant Mehmet Toner et al. Filing Date May 16, 2001 Group Not Yet Assigned IDS Filed August 20, 2001 Customer No. 21559				
U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
198	Levine et al., "Thermomechanical properties of small-carbohydrate-water glasses and 'rubbers'," <i>J. Chem. Soc., Faraday Trans.</i> , 84(8):2619-2633 (1988).					
1	Marchase et al., "Glucose phosphotransferase and intracellular trafficking," <i>Molecular and Cellular Biochemistry</i> 72:101-107 (1986).					
1	Paynter et al., "Permeability characteristics of human oocytes in the presence of the cryoprotectant dimethylsulphoxide," <i>Human Reproduction</i> 14(9):2338-2342 (1999).					
1	Rayos et al., "Quick freezing of unfertilized mouse oocytes using ethylene glycol with sucrose or trehalose," <i>Journal of Reproduction and Fertility</i> 100:123-129 (1994).					
1	Russo et al., "Reversible permeabilization of plasma membranes with an engineered switchable pore," <i>Nature Biotechnology</i> 15:278-282 (1997).					
EXAMINER	LAWSON			DATE CONSIDERED 7/4/01		
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.						